## *Roll No. : …………………………*

**Bharati Vidyapeeth’s**

**Institute of Computer Applications and Management (BVICAM),**

**A-4, Paschim Vihar, New Delhi-63**

**THIRD SEMESTER [MCA] Internal Examination, December 2022**

**Paper Code: MCA–253 Subject: Cyber Security and Cyber Laws**

**Time: 2 Hours Maximum Marks: 45**

**Note: Attempt THREE questions in all. Question No. 1 is compulsory, and attempt one question from each unit.**

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| --- | --- | --- | --- | --- | --- |
| 1. | Answer all the following questions briefly: - 1.5 × 10 = 15 | | | | |
|  | (a) | Compare cyber espionage with cyberwarfare. | | | CO2 |
|  | (b) | Categorize different types of cybercriminals with suitable example for each category. | | | CO3 |
|  | (c) | Contrast and compare email spam with email spoofing. | | | CO2 |
|  | (d) | List any 3 rules to be abided by the ethical hackers. | | | CO2 |
|  | (e) | Explain Stealth virus. | | | CO2 |
|  | (f) | Justify botnets can be used as a fuel in cybercrime | | | CO3 |
|  | (g) | Contrast and compare steganography with cryptography. | | | CO1 |
|  | (h) | Briefly state LDAP security in devices. | | | CO1 |
|  | (i) | What is data diddling? | | | CO1 |
|  | (j) | What are Nop’s? | | | CO1 |
| **UNIT - I** | | | | | |
| 2. | (a) | How can we classify cybercrimes? Identify any five cybercrimes against organization. Briefly explain each. | | 5 | CO1 |
|  | (b) | State the difference between passive and active attacks. Provide examples. | | 5 | CO2 |
|  | (c) | State the benefits of Cloud computing. How is Cloud computing vulnerable. | | 5 | CO3 |
| 3. | (a) | What is social engineering? Enlist any three examples each of human based and computer based social engineering | | 5 | CO2 |
|  | (b) | Elaborate Bluetooth hacking. Discuss four common attacks that have emerged in hacking Bluetooth. | | 5 | CO2 |
|  | (c) | List any three popular attacks on mobile phone. | | 5 | CO1 |
| **UNIT - II** | | | | | |
| 4. | (a) | Explain key logging? Enlist types of keyloggers and elaborate their working. Also identify the tool that can detect keylogger | 5 | | CO2 |
|  | (b) | Elaborate the purpose of a proxy server? Contrast anonymizer with proxy server | 5 | | CO3 |
|  | (c) | Enlist types of buffer overflow and how do they weaken the system | 5 | | CO1 |
| 5. | (a) | What is SQL injection? How is it executed? How can we protect data from this attack? | 5 | | CO2 |
|  | (b) | Explain Backdoors. List the ways a Backdoor can weaken our systems | 5 | | CO1 |
|  | (c) | Elaborate DoS attack. Explain Flood attack, Smurf attack and teardrop attack in DoS. Compare DDos with PDoS | 5 | | CO3 |